Overview and Recommendations for Transportation Performance Measures

Report of the Outcome Measures Subcommittee

Young Ho Chang Subcommittee Chairman March 30, 2007



OM Subcommittee Charge

- Review and assess current transportation accountability and performance methods
- Identify and recommend national best practices in accountability and performance for transportation
- Recommend quantifiable outcome measures including land use and transportation coordination
 - Identify and recommend key strategic goals and associated outcome measures
- Consider quantifiable ways to measure a project's community impacts

OM Subcommittee Schedule

February

- Review national best practices
- Review current Virginia accountability and performance methods
- Recommend strategic goals

April

- Review performance measures
- Recommend outcome measures for strategic goals (except for land use and community impacts)

May

- Review land use and transportation measures
- Review community impact measures
- Recommend outcome measures for land use and transportation coordination and community impacts of transportation projects

June

Meeting if needed to finalize recommendations



Subcommittee Meeting February 21, 2007

- National Best Practices Lance Neumann
 - Uses of Performance Measures
 - Examples from Other States
 - Findings
- Virginia's Performance Report 2006 Mary Lynn Tischer
 - Origins
 - Goals
 - Framework
- Current Performance Measures Kimberly Spence
- Outcome Measures Subcommittee Findings

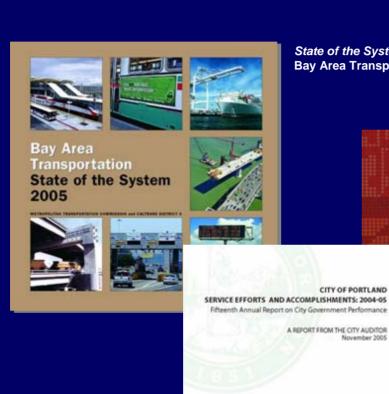


Performance Measurement Trends

- Transportation agencies have used a variety of performance measures for years
- "Performance Management" has emerged as an accepted and expected management practice among transportation agencies in the last 10 years
- Focus of most efforts
 - Performance of the system
 - Performance of the agency
 - Program delivery
 - Customer satisfaction



- Uses of Performance Measurement
 - Defining goals in long-range plans and programs
 - Periodic performance reporting "state-of-the-state" or region
 - Real-time reporting of system conditions
 - Guiding resource allocation and budgeting decisions
 - Driving results throughout an agency
 - Establishing/maintaining credibility and accountability
 - Communicating to various stakeholders

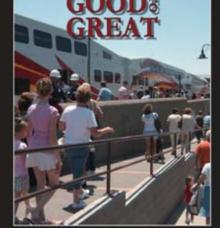


State of the System 2005 **Bay Area Transportation**

Good to Great Strategic Plan and Annual Report **New Mexico DOT**



Implementing the Maryland Transportation Plan & Consolidated Transportation Program



A REPORT FROM THE CITY AUDITOR

CITY OF PORTLAND

November 2005

Office of the City Auditor Portland, Oregon 2007 Annual Attainment Report **Maryland DOT**

Service Efforts and **Accomplishments** City of Portland, Oregon

COMMISSION

National Best Practices



Pennsylvania Department of Transportation

*Measures, Markers and Mileposts*Washington State Department of Transportation



Conclusions

- Defining, tracking, and reporting on a broad range of transportation performance measures is the state of the practice
- Focus of different agency efforts varies widely
- Many examples and resources are available
- Virginia is a lead state though there are always areas for improvement



2006 VA Performance Report

The VTrans2025 Action Plan

- The Commonwealth should progress toward performance-based planning and programming
- Multimodal performance measures should be tied to the VTrans2025 goals

Code of Virginia

- §2.2-229 requires the Multimodal Office to develop transportation performance measures and prepare an annual performance report on state and regional efforts
- Item 442 of Appropriations Act (2006) requires that the Multimodal Office work directly with MPOs to develop quantifiable and achievable regional goals

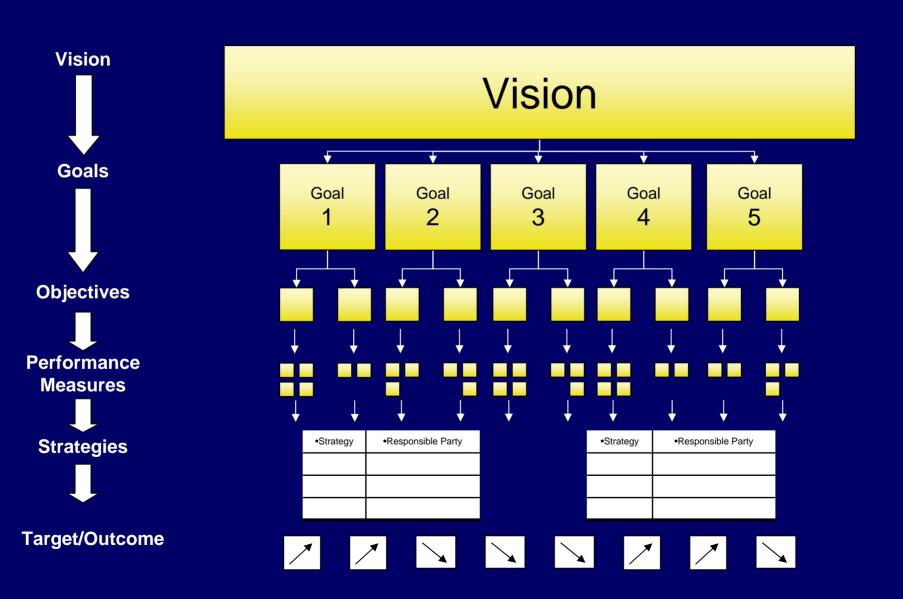
2006 Virginia Performance Report

 Vision: a transportation system that is safe, enables easy movement of people and goods, enhances the economy, and improves our quality of life

Goals

- Provide a Safe and Secure Transportation System
- Preserve and Manage the Existing System
- Facilitate the Efficient Movement of People and Goods
- Ensure Economic Vitality
- Improve Land Use Coordination and Quality of Life

2006 VA Performance Report



Performance Measures Number and Rate of

Strategies > Increase safety belt usage to 82 percent

Fatalities

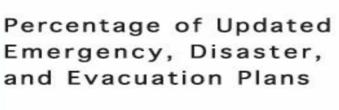
> Reduce intersection crashes

Number and Rate of Injuries

> Upgrade 25 rail crossings by 2007 > Expand Highway Safety Corridor Program > Reduce the number of alcohol-related crashes

Compliance with the Maritime Transportation Security Act

> Install electronic gates at terminals > Use closed-circuit television surveillance systems



> Install I-64 lane reversal gates > Operate a 24-hour Transportation **Emergency Center**

and Evacuation Plans Percentage of Airports Participating in the Voluntary Security

Certification Program

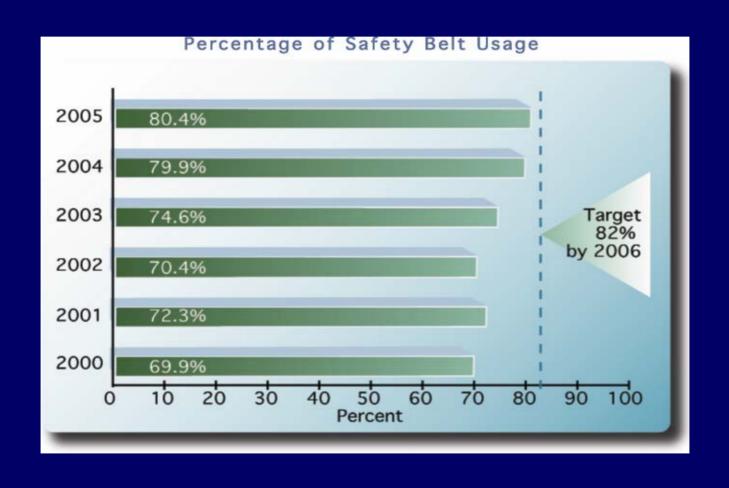
> Maintain the Strategic Highway Network > Assist airports in developing security programs

> Operate a radiation detection system

Mobility



Safety Belt Usage





Strategies for Security

Ports

- Scan all import containers for radioactive material
- Install electronic gates at terminals
- Use closed circuit TV surveillance systems



Safety and Security

Performance Measure	Performance Trend	Desired Trend
Number and Rate of Fatalities	→	Ψ
Number and Rate of Injuries	\	\
Compliance with the Maritime Transportation Security Act	✓	→
Percentage of Updated Emergency, Disaster, and Evacuation Plans	✓	→
Percentage of Airports Participating in the Voluntary Security Certification Program	→	^



Preservation and Management

Performance Measure	Performance Trend	Desired Trend
Condition of Pavement	✓	→
Percentage of Bridges that Need Repair or Rehabilitation	Prior years data Unavailable	V
Percentage of Transit Vehicles that Exceed Replacement Age	Prior years data Unavailable	\P
Average Service Wait Time	^	\P
Average Clearance Time for Highway Incidents	Prior years data Unavailable	\Psi
Increase Port Capacity of Cargo per Acre	↑	↑



Mobility, Accessibility, and Connectivity

Performance Measure	Performance	Desired Trend
Transit Ridership	^	^
Transit Vehicle Revenue Miles	^	^
Percentage of Congested Lane Miles	Prior years data Unavailable	→
Number of Enplanements at Air Carrier Airports	^	^
Cargo Volume through the Port of Virginia (TEUs Shipped)	^	^



Economic Vitality

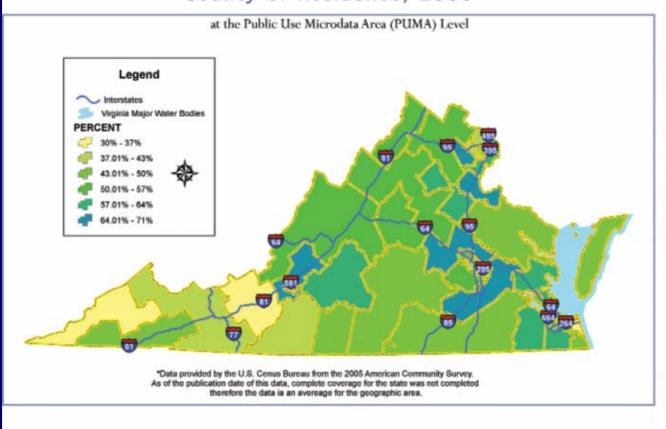
Performance Measure	Performance
Per Capita Income	7 th highest in the nation
Unemployment Rate	2 nd lowest in the nation
Annual Percent Change in Employment	+2.5%
Business Climate	Forbes Magazine "Best Site for Business"



Land Use Coordination and Quality of Life

Performance Measure	Performance	Desired Trend
Tons of Transportation-Related Emissions	\	•
Fuel Usage per Capita	^	\
Congested Lane Miles	Prior years data Unavailable	\P
Annual Hours of Delay per Year per Traveler	^	→
Acreage of Land Preserved	^	↑

Percent of Workers 16 Years and Over Who Worked Outside County of Residence, 2005





OM Subcommittee Findings

Strategic Goals

- 1. Safety To provide a safe transportation system
- 2. Security To provide a secure transportation system
- 3. System Management and Preservation To preserve and manage the existing transportation system
- 4. Mobility, Connectivity, and Accessibility To facilitate the efficient movement of people and goods, improve interconnectivity of all transportation modes, and provide accessibility for all
- 5. Economic Vitality To improve Virginia's economic vitality
- 6. Coordination of transportation and land use To facilitate the coordination of transportation and land use activities
- 7. Fiscal Responsibility To efficiently and effectively invest transportation funds and improve program delivery
- 8. Environmental Stewardship To improve environmental quality

Quality of life was also identified as an important, but undefined, factor



OM Subcommittee Findings

- The goals identified in VTrans2025 and the 2006
 Performance Report are reasonable and sufficiently broad to be used as a starting point
- The eight goals as shown are the same as current goals
- Performance measures should have targets that are realistic and tied to available revenues
- The effect of additional revenue on performance targets should be presented
- Overarching goals need to be adopted and embraced by appropriate boards and management
 - Measures are meaningless without goals

Questions?